

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Brian Smith

GENERAL INFORMATION:

|                            |                                       |
|----------------------------|---------------------------------------|
| Name:                      | AK Steel Corporation                  |
| Address:                   | P.O. Box 191, Ashland, Kentucky 41005 |
| Date application received: | 4/08/04                               |
| SIC/Source description:    | 3312                                  |
| EIS #:                     | 21-019-00005                          |
| Application log number:    | 56476                                 |
| Permit number:             | V-02-020 (Revision 2)                 |

APPLICATION TYPE/PERMIT ACTIVITY:

|   |  |
|---|--|
| <input type="checkbox"/> Initial issuance               | <input type="checkbox"/> General permit                    |
| <input checked="" type="checkbox"/> Permit modification | <input type="checkbox"/> Conditional major                 |
| <input type="checkbox"/> Administrative                 | <input checked="" type="checkbox"/> Title V                |
| <input type="checkbox"/> Minor                          | <input checked="" type="checkbox"/> Synthetic minor        |
| <input checked="" type="checkbox"/> Significant         | <input type="checkbox"/> Operating                         |
| <input type="checkbox"/> Permit renewal                 | <input checked="" type="checkbox"/> Construction/operating |

COMPLIANCE SUMMARY:

|   |   |
|---|---|
| <input type="checkbox"/> Source is out of compliance                | <input type="checkbox"/> Compliance schedule included |
| <input checked="" type="checkbox"/> Compliance certification signed |   |

APPLICABLE REQUIREMENTS LIST:

|   |   |   |
|---|---|---|
| <input type="checkbox"/> NSR                              | <input type="checkbox"/> NSPS   | <input checked="" type="checkbox"/> SIP |
| <input type="checkbox"/> PSD                              | <input checked="" type="checkbox"/> NESHAPS   | <input type="checkbox"/> Other          |
| <input checked="" type="checkbox"/> Netted out of PSD/NSR | <input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b) |   |

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☒ Pollution Prevention Measures
- ☒ Area is non-attainment (list pollutants): SO<sub>2</sub>, Ozone

EMISSIONS SUMMARY:

| Pollutant           | Actual (tpy) | Potential (tpy) |
|---------------------|--------------|-----------------|
| PM/PM <sub>10</sub> | 0            | 10.05           |
| SO <sub>2</sub>     | 0            | 0.04            |
| NO <sub>x</sub>     | 0            | 7.49            |
| CO                  | 0            | 37.32           |
| VOC                 | 0            | 0.99            |
| LEAD                | 0            | 0               |

Note: The above emissions are for the proposed construction only, not the entire plant emissions.

SOURCE PROCESS DESCRIPTION:

AK Steel operates a steel mill in Ashland, Kentucky, an attainment area for ozone, NO<sub>x</sub>, CO, and particulates, but nonattainment for SO<sub>2</sub>. They are subject to Title V permitting requirements because their potential to emit for each criteria pollutant is greater than 100 tons/yr. A Title V application was received by the Division on December 13, 1996. The application was called complete on February 14, 1997. AK Steel has since proposed a production increase of sufficient magnitude to trigger PSD (401 KAR 51:017, "Prevention of Significant Deterioration of Air Quality"). They have netted out of PSD by using emission credits obtained from significant emissions decreases. A Title V permit was issued to AK Steel on October 6, 2003. AK Steel is proposing to construct a new addition to their plant consisting of a vacuum degasser and modified slab caster.

EMISSION AND OPERATING CAPS DESCRIPTION:

AK Steel has accepted federally-enforceable limits on their steel process rate and on their emissions to stay below PSD levels.